Effect Sizes of MORL Improvements vs Baseline Algorithms Small Effect 0.84 Evolutionary MOEA-D -Medium Effect Large Effect 0.89 Evolutionary SPEA2 -1.14 Evolutionary NSGA-II --0.23 Single-Objective SAC -0.25 Single-Objective DDPG -0.79 Single-Objective PPO 1.02 PID + Trajectory Planning -0.00 0.25 0.50 0.75 1.00 -0.251.25 1.50 Effect Size (Cohen's *d*)